

## DESCRIPTION

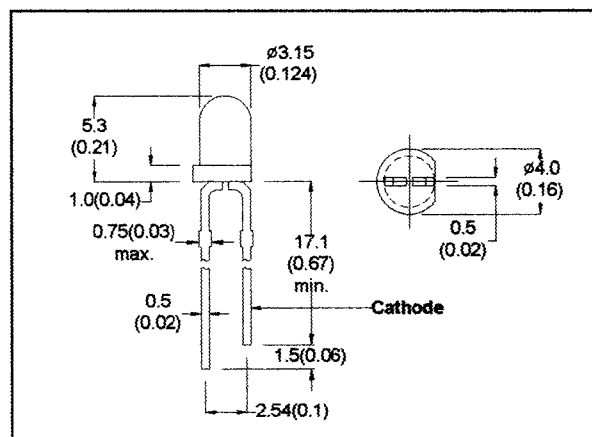
MS31XA Series are ultra high brightness GaAlAs red LED lamp with 3mm diameter epoxy package.

MS31CA is GaAlAs red chip with red transparent lens.

MS31DA is GaAlAs red chip with red diffused lens.

MS31TA is GaAlAs red chip with clear transparent lens.

MS31WA is GaAlAs red chip with clear diffused lens.



- All Dimension in mm (inch)
- No Scale
- Tol : +/- 0.3mm

## ABSOLUTE MAXIMUM RATINGS

Power Dissipation @Ta=25°C

Forward Current, DC (IF)

Reverse Voltage

Operating & Storage Temperature Range

Lead Soldering Temperature (1/16" from body)

100mW

40mA

5V

-55 to +100°C

260°C for 5 sec.

## ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

| PARAMETER                 | SYMBOL              | MS31CA | MS31DA | MS31TA | MS31WA | UNIT   | CONDITIONS     |
|---------------------------|---------------------|--------|--------|--------|--------|--------|----------------|
| Forward Voltage           | MAX VF              | 2.4    | 2.4    | 2.4    | 2.4    | V      | IF=20mA        |
| Reverse Breakdown Voltage | MIN BVR             | 5      | 5      | 5      | 5      | V      | IR=100 $\mu$ A |
| Luminous Intensity        | MIN IV              | 50     | 20     | 50     | 20     | mcd    | IF=20mA        |
|                           | TYP                 | 75     | 30     | 75     | 30     | mcd    |                |
| Peak Wavelength           | TYP $\lambda_p$     | 660    | 660    | 660    | 660    | nm     | IF=20mA        |
| Spectral Line Half Width  | TYP $\Delta\lambda$ | 20     | 20     | 20     | 20     | nm     | IF=20mA        |
| Viewing Angle             | TYP $2\theta_{1/2}$ | 40     | 60     | 40     | 60     | degree | IF=20mA        |

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Aug-99